Shamak Dutta

s7dutta@uwaterloo.ca

GitHub/shamak • LinkedIn/shamakdutta • DevPost/shamak

https://shamak.github.io/

Technical Skills

Languages: Python > Ruby > Java > C++

Misc: Elasticsearch, MySQL, Hadoop, Theano Deep Learning, Pig, Django, Rails

---

Research & Work Experience

A9   **Palo Alto, CA**
Software Engineer, Advertising Technology   *January 2016 - present*

- Working with terabytes of data in Pig, Hadoop, Python, Elasticsearch, AWS

Research Assistant, Deep Learning & Neural Networks   **Waterloo, ON**
Supervisor: H.R Tizhoosh, University of Waterloo   *September 2015 - December 2015*

Lookout   **San Francisco, CA**
Software Engineer, Security & Infrastructure   *May 2015 - August 2015*

- Shipped a review system for a rules engine used to automatically triage malicious apps
- Co-developed a custom boolean search algorithm in Ruby over 30 million applications
- Won a hackathon by developing a scoring algorithm to gamify code reviews with leaderboards; Processed thousands of code reviews to display relevant metrics
- Ideated full text string search with 300 thousand unique strings over millions of apps

Avvasi   **Waterloo, ON**
Software Engineer, Platform   *September 2014 - December 2014*

- Independently shipped a network testing framework using Python with a heavy emphasis on concurrency and parallelisation which automated production workflow

Achievers   **Toronto, ON**
Software Developer   *January 2014 - April 2014*

- Shipped several internal tools used by the client services and marketing teams
- Developed cron jobs for an email notification system for thousands of users in PHP

Projects

- Full text search on **PianoShelf** for ~4000 users, ~2500 sheet music using ElasticSearch
- **Android app** for requesting/posting carpool rides; Won an award at hackWaterloo
- **Android app** simplifying event scheduling between friends developed at HackTheNorth

---

Education

University of Waterloo   **Waterloo, ON**
Candidate for Bachelors of Computer Engineering   *September 2012 - Present*